

MTH650/MTH800 Portable Radio



Chargers

FTN6306: Dual Pocket Desktop Charger (requires the use of Travel Charger WALN4092)
***WALN4092:** Travel Charger (including UK and Euro plugs)
WPLN4175: Multi Unit Charger 6 pockets – Euro Plug 220V
WPLN4177: Multi Unit Charger 6 pockets – US Plug 110V
RLN5643A: Wall mounting tray for multi-unit charger
NNTN4250B: Travel Charger – US Plug



Batteries

***SNN5705:** 800 mAh – Lithium Ion (requires the use of standard battery door 0102709K05)
***NNTN4655:** 1500 mAh – Lithium Ion (requires the use of extended battery door 0102709K08)
0102709K05: Standard battery door (for use with standard battery SNN5705)
0102709K08: Extended battery door (for use with extended battery NNTN4655)



In-Vehicle Solutions

FTN6307: Digital Car Kit (kit includes cradle, junction box, remote visor microphone, remote Velcro PTT, external 5W speaker, installation cables, user guide and installation manual)
***FLN9469:** Vehicle Power Adapter



Audio Accessories

For shoulder worn terminal:

FTN6388: Earpiece with in-line Microphone and coiled cord, short cable

For belt worn terminal:

RMN5042: Remote Speaker Microphone (RSM) with 2.5mm jack socket
RLN4939: Earpiece, receive only, short cable for use with Remote Speaker Microphone
***WADN4184:** Breeze Headset with Boom Microphone and in-line Push-To-Talk (recommended only for use in indoor normal ambient noise)
NNTN4033: Personal Hands Free Kit (ear bud with in-line microphone and Push-To-Talk)
FTN6304: Surveillance Kit – 3-wire earpiece with separate Microphone and Push-To-Talk
***GMMN1105:** Audio bundle kit (includes receive only earpiece for radio FTN6388, earshells WADN4223/4224 and voice tubes NTN8370/NTN8371)

The following accessories can be used to further personalize your communication:

GMLN1081: Audio jack adapter (kit of 10 units) (side connector with lock function for use with any audio accessory that plugs into the terminal audio side connector – allows more rugged connection)



For use with FTN6304 and FTN6388:

NTN8371: Acoustic Tube for low noise environments (clear voice tube with rubber ear tip)
NTN8370: Acoustic Tube for extreme noise environments (clear voice tube with foam earplug)
WADN4223: Ear shell, large with grommet insert
WADN4224: Ear shell, small with grommet insert

Carry Accessories

Shoulder Worn:

FTN6355: Shoulder Wearing Device (bracket with stud – to use in conjunction with Sew-On Dock GMDN0386A)
GMDN0386A: Sew-On Dock (from Peter Jones Ltd) The Shoulder Wearing Device interfaces with all female docks from Peter Jones Ltd, but is particularly intended for use with the above Sew-On Dock, sewn onto the uniform/clothing.



Belt Worn:

RLN4892: Hard Leather Case with swivel 3” belt loop
RLN4891: Soft Leather Case with swivel 3” belt loop
FTN6302: Bracket with U-slot (to use in conjunction with belt clip HLN9714 or HLN9844)

HLN9714: Spring belt clip – long 2” (requires bracket with U-slot FTN6302)
HLN9844: Spring belt clip – short 1.5” (requires bracket with U-slot FTN6302)

Other:

HLN9767: Wrist Strap

Antennas

8586381J11: New Whip Antenna 380-430 MHz with integrated GPS antenna (MTH800 only)
8586381J10: New Helical Antenna 380-430 MHz with integrated GPS antenna (MTH800 only)
***FAE5528:** External Roof Antenna, 380 - 400 MHz
***FAE5529:** External Roof Antenna, 410 - 430 MHz
8586381J03: Helical Antenna, 380 - 400 MHz (MTH650 only)
8586381J07: Helical Antenna, 410 - 430 MHz (MTH650 only)
8586381J06: Whip Antenna, 380 - 430 MHz (MTH650 only)

Cables

***FKN4897:** RS232 Data Cable
***FLN9636:** Programming Cable
NNTN4007: USB Cable (MTH800 only)

MTH500 Portable Radio

Battery

FTN6031 800 mAH Li-Ion standard with battery door
0186613T01 Standard battery door
0186239T01 Extended battery door

Chargers

FLN9468 Dual Pocket Desktop Charger

In-Vehicle Solutions

FLN2850: Digital Car Kit with External PTT (including remote speaker, microphone and PTT, requires separate external antenna)
FLN9569: In-Car Passive Cradle, with RF connection (requires separate external antenna)

Carry Accessories

FLN9476 Soft Leather Carry Case
FHN6246 Belt Clip

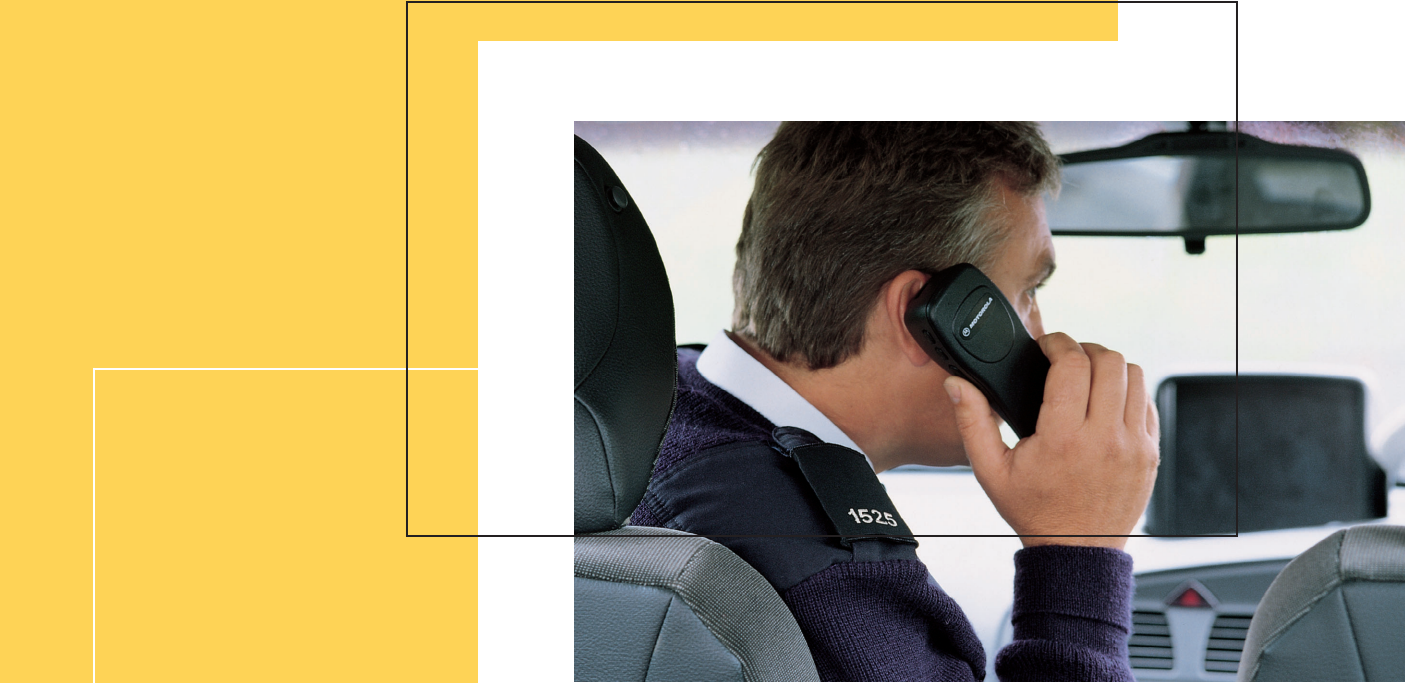
Audio Accessories

FLN9568 Earbud with inline Microphone

* Shared for MTH800 / MTH650 / MTH500

The information contained in this document may be subject to change without further notice.

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MOTOROLA TETRA ACCESSORIES

MOTOROLA PROVIDES COMPLETE TWO-WAY RADIO COMMUNICATION SOLUTIONS WITH A WIDE SELECTION OF ROBUST AND RELIABLE ACCESSORIES.

MTP700 Portable Radio

IMPRES™ System

The new Intelligent Motorola Portable Radio Energy System consists of an IMPRES™ battery and an IMPRES™ charger. Together they provide an automated, intuitive, self-reliant and self-sufficient battery maintenance system.

Further significant advantages include:

- Maximizes the number of battery charge and discharge cycles
- No “memory effect”
- Maximizes battery operating time between charges
- Batteries cover a wide range of duty cycles, from standard to extended shifts
- Precise prediction of “end of battery life”

IMPRES™ Single Unit Chargers

(contain MTP700 battery adapter **RLN5211**)

WPLN4112 IMPRES™ Single Unit Charger, **Euro plug.**
WPLN4117 IMPRES™ Single Unit Charger, **US plug.**



IMPRES™ Multi Unit Chargers

(contain MTP700 battery adapter **RLN5212**)

WPLN4120 IMPRES™ Multi Unit Charger, **US plug.**
WPLN4109 IMPRES™ Single Unit Charger, **Euro plug.**



IMPRES™ Lite Single Unit Chargers

(no battery reconditioning function)

WPLN4149 IMPRES™ Lite Single Unit Charger, **US plug.**
WPLN4150 IMPRES™ Lite Single Unit Charger, **Euro plug.**

IMPRES™ Batteries

Lithium Ion

- Approximately 30% lighter and thinner than Nickel Metal Hydride batteries
- Environmentally friendly
- Operating temperature ranges: 0 to +45°C (while charging battery) and -20 to +45°C (while using radio)
- Usage time per charge (assuming a 5/35/60 battery cycle):
PMNN4047: 1500 mAh Standard Battery (130 g): up to 18 hours

Nickel Metal Hydride

- FM approved model for intrinsically safe environments
- Operating temperature ranges: +5 to +45°C (while charging battery) and -30 to +60°C (while using radio)

Usage time per charge (assuming a 5/35/60 battery cycle):
PMNN4048: 1200 mAh Battery (200g): up to 16 hours
PMNN4049: 1150 mAh FM approved Battery (200 g): up to 15 hours



MTP700 Portable Radio

Audio Accessories

A range of audio accessories brings key portable radio functionalities directly to the user's ears and fingertips, simplifying radio communication and constantly keeping the professional user in touch with the rest of the team.

Enhanced Remote Speaker Microphone with 3.5 mm jack socket

Robust omni-directional microphone with enhanced remote functionalities such as:

- Vibrating call alert
- Two programmable buttons
- Emergency button
- Push to Talk PTT
- Manual volume control



The microphone includes a 3.5 mm jack socket to allow for the connection of discreet earpieces. With the earpiece attached, Duplex Call answering (once programmed in radio) provides the end user with simultaneous voice transmission and reception. Without an earpiece, Duplex Call answering requires the use of the PTT on the radio or the microphone. **RMN5011** with short coiled cord (approximately 35 cm) **RMN5012** with long coiled cord (approximately 70 cm)

Remote Speaker Microphone with 3.5 mm jack socket

This noise-cancelling microphone is particularly suited to high noise environments. With coiled cord (approximately 35 cm), it is an economic and easy to use audio solution. The 3.5 mm jack socket allows for the connection of discreet earpieces. **RMN5013**

These remote speaker microphones can be used with the following audio accessories:

Receive Only Earbud with 3.5 mm jack and coiled cord

Very light and discreet, the earbud is extremely comfortable. It can be worn for extended periods of time, ensuring constant and private radio message awareness without restricting head movements. Replaceable foam ear cushions are available. Use with both enhanced remote speaker microphone with 3.5 mm jack socket (RMN5011 / RMN5012) and remote speaker microphone with 3.5 mm jack socket RMN5013. **MDRLN4885**



Receive Only Earpiece

Small and discreet. Particularly good when transmission is occasional and permanent radio message awareness is needed. Ideal for public facing roles within the community and hands free communications. **MDRMN4028** 1-wire, black **MDRMN4021** 1-wire, beige



Receive Only Earpiece with Translucent Tube (3.5 mm jack)

For use with Basic and Enhanced Remote Speaker Mics. Light and discrete acoustic translucent tube. Constant and discrete radio listening. **MDRLN4941**



Earpiece with Combined Microphone and PTT

The earpiece, small and unobtrusive, provides permanent radio message awareness. The combined microphone/ PTT can be concealed about the person e.g. under a lapel, making it ideal for discreet and comfortable radio communication. **MDRMN4029** 2-wire, black **MDRMN4022** 2-wire, beige



Earpiece with Separate Microphone and PTT

Ideal when radio communication requires added covertness. PTT button fits easily in the palm of the hand while the clip-on microphone can be discreetly and securely attached inside a collar. The comfortable earpiece is best suited to private listening in quiet environments. **ENMN4014** 3-wire, black **ENMN4017** 3-wire, beige



Acoustic Tube with Clear Voicetube

Compatible with the above mentioned discreet earpieces, the acoustic tube provides enhanced covertness and comfort. It is ideal for noisy environments, crowd control and outside events. Replaceable foam and rubber ear tips are available for enhanced hygiene. Use with earpieces MDRMN4028/MDRMN4021, MDRMN4029/MDRMN4022 and ENMN4014/ ENMN4017 **NTN8370** with earplug foam (extreme noise kit) **NTN8371** with rubber ear tips (low noise kit).

Can be further enhanced with clear ear inserts:

Right ear:	Left ear:
RLN4760 (small)	RLN4763 (small)
RLN4761 (medium)	RLN4764 (medium)
RLN4762 (large)	RLN4765 (large)

Earshell

These comfortable earshells allow secure fitting around the ear. They are compatible with all Motorola original earpieces to provide smart and professional appearance. **WADN4223** large size (with grommet insert) **WADN4224** small size (with grommet insert)

Lightweight Headset with Boom Microphone and In-line PTT

This light and comfortable headset has an adjustable headband and padded earpiece. The reversible boom microphone means it can be used on either ear while the single earpiece allows permanent non-radio communication awareness. It supports Duplex Call answering once programmed in the radio. **RMN5014**

Breeze Headset with Boom Microphone and In-line PTT

This stylish headset, with its innovative flexible behind-the-head design, can be worn under a helmet. Light and discreet, it supports Duplex Call answering once programmed in the radio. The adjustable boom microphone ensures unobtrusive two-way radio communication. **ENMN4012**



Antennas

These antennas provide clear and reliable communication for all MTP700 portable radio users. **FAE6000:** 380-400 MHz, 10cm helical antenna (coded yellow) **FAE5520:** 380-400 MHz, 16cm whip antenna (coded yellow) **FAE6001:** 410-430 MHz, 9cm helical antenna (coded red) **FAE6002:** 410-430 MHz, 13cm whip antenna (coded grey) **NAF5037:** 806-870 MHz, 18cm whip antenna (coded red) **NAF5042:** 806-870 MHz, 9cm helical stubby antenna (coded white)



Carry Accessories

A range of carry solutions allows the MTP700 portable radio to be used hands free and safely in the work place.

Hard Leather Case with swivel 3" belt loop

Widely used and popular, this carry case with swivel allows quick and easy release for access to the radio's keypad and screen. Made from the highest quality leather, it is robust, offering added protection for the radio. **PMLN4474**

Soft Leather Case

Cellular-style carry case, it is very light and provides good protection and direct access to the radio's screen and keypad. Requires the use of the belt clip HLN9714. **PMLN4475**



Belt clip for 3" belts

Slides and mounts on the back of all Motorola original MTP700 batteries. It is a cost effective and light carry option. **HLN9714**

Carry strap

Provides over-the-shoulder or across-the-body carrying solution. Use with carry case PMLN4474. **NTN5243**

Wrist strap

Attaches directly to the radio or to the carry case. Use with carry case PMLN4474. **HLN9767**

Nylon Accessories

Nylon Carry Case

RLN4851

Large Shoulder Harness and Case Kit

GMLN4093

Small Shoulder Harness and Case Kit

GMLN1051



Data Cable

Required for the programming and customization of the MTP700 portable radios.

RS232 Data Cable

Connects directly to the MTP700 portable radio. Used with Customer Programming Software package (CPS) and for data transfer. **PMLN4504**

Vehicle Accessories

Vehicle Adapter

The MTP700 vehicle adapter has been developed specifically for users who need to use their handportable terminal while working inside and outside their vehicle. Once the adapter is installed in the vehicle, the MTP700 is transformed into a virtual mobile radio providing in-vehicle battery charging, hands free operation and extended coverage. **GMLN1040**

Vehicle Charger

Easy and quick to install. Includes mountable pocket to insert radio and vehicle power adapter. **GMLN1027**



MTM700 Mobile Radio

Desktop Solution

Offers a simple and easy-to-install "mobile in tray" option suitable for local dispatching operations. The following accessories are required:

Desktop tray without speaker:

Serves as a desktop base unit, where the MTM700 mobile radio fits easily and securely. **GLN7318**



The desktop tray requires the use of an external speaker.

External speaker 13 watts:

Ideal for receiving voice transmission in high noise working environments. Ensures optimum acoustic performance. Optional screw holes to allow for further secure fitting if required. **GMSN4066**



Compact external speaker 5 watts:

New slim-line design. Ideal for receiving voice transmission in standard noise working environments. Ensures optimum acoustic performance. Optional screw holes to allow for further secure fitting if required. (Unsealed and not waterproof) **GMSN4078**



Desktop power supply:

Features battery revert facility in the event of mains failure (battery not supplied). **GPN6145**

Requires the use of one of the following power cables and the DC power cable, if the MTM700 mobile radio is used in the desktop tray.

NTN7373 Power cable (US plug) **NTN7374** Power cable (Euro plug)

DC power cable: Connects the desktop power supply to the MTM700 mobile radio when mounted in the desktop tray. **GKN6266**

Desktop microphone

Suitable for local dispatch operations. **GMMN4064**



In-Vehicle Solution

The following accessories allow mobile radio customization over and above the standard mounting solution. Suits professional end users' needs and caters for different vehicles and different dashboards. The following accessories are required, with a choice of mounting options available:

High profile mounting trunnion

Provides a wide range of mounting positions. **GLN7317**

Low profile mounting trunnion

Ideal for mounting the MTM700 mobile radio in a more confined space. **GLN7324**



Remote mount kit

Allows mounting in confined spaces and offers the possibility of disconnecting the control head from the radio unit. The control head is mounted in a convenient and easy-to-access location while the radio unit is mounted in the available space in the vehicle e.g. the boot. **PMLN4492** Remote mount kit (3 m cable included) **PMLN4493** Remote mount kit (5 m cable included) **PMLN4494** Remote mount kit (7 m cable included) **PMLN4495** Remote mount expansion kit (3 m cable included) **PMLN4496** Remote mount expansion kit (5 m cable included) **PMLN4497** Remote mount expansion kit (7 m cable included) Remote mount cables are also available separately to cater for various vehicles and mounting options. **RKN4077** Remote mount cable – 3m **RKN4078** Remote mount cable – 5m **RKN4079** Remote mount cable – 7m

Key lock mount: Provides increased security by preventing removal from the mounting bracket. Comes complete with dashboard mounting screws and key. **RLN4779**

Telephone style handset kit

Ergonomically designed for professionals seeking the increased privacy of a slim line telephone style handset with PTT. Supports both Duplex and PTT calling. Includes two programmable buttons for added functionalities such as: loudspeaker enable/disable and "request to send". Comes complete with adjustable angle mounting bracket, machine screws and hang-up cup. **GMUN1006**



Fist microphone

Provides remote microphone and PTT for convenient one-handed mobile radio operation. Robust construction with coiled cord for strain relief. Comes complete with hang-up clip and mounting hardware. **GMMN4063**

Visor microphone

Slick new design, it caters for professionals working in vehicles for extended periods of time. Comes complete with three different mounting brackets: dashboard, sun-visor or headlining as well as double-sided adhesive tape and screw for enhanced stability. (Unsealed and not waterproof). **GMMN4065**

Omni-directional Visor microphone

This visor microphone offers alternative operational performance, especially designed to cater for installations where wind outside the vehicle may blow across the microphone. **GMMN1033**

The visor microphone requires the use of one of the following PTT buttons.



Remote footswitch PTT

Remotely activates the PTT function of the visor microphone. Comes complete with mounting hardware for the vehicle's floor. **RLN4856**

Push button PTT

Standard PTT button. Double-sided adhesive tape device for convenient and flexible mounting. Comes complete with dashboard mounting hardware. **RLN4857**

Gooseneck PTT

Can be placed close to the steering wheel column or in a convenient location on the vehicle's dashboard. Enables the user to remotely activate the microphone while driving. Comes complete with dashboard mounting hardware. **RLN4858**

Emergency footswitch PTT

Easily and secretly triggers emergency operation within a Tetra system. Also remotely activates the PTT function of the visor microphone. **RLN4836**

Mounting of the mobile radio requires the use of one of the following power cables: **GKN6270** 12V power cable to battery with fuse (15A) - 3m **GKN6274** 12V power cable to battery with fuse (20A) - 6m **HKN9327** Ignition Sense cable with fuse (3A) - 6m

The following antennas provide clear and reliable communication for all professional users: **FAE5521** Rooftop mount 380-400 MHz **FAE6003** Rooftop mount 410-430 MHz **HAF4002** 800 MHz antenna (requires BNC adapter 5880367B28)

Miscellaneous

Specialized Accessories

GKN6272 External alarm relay **GLN7282** Buzzer kit

Data Cables

GMNK4079 Mobile SB9600 cable **GMKN1022** Active Data Cable (for short and pocket data transfer)

Programming cable

Provides interface between the PC and mobile radio. To be used with the CPS software. **GMKN4067**

Junction Box

Connects to radio rear accessory. Provides additional connectivity for microphones, packet and short data, KVL keyloader, and external accessories. **GMLN3002**

